

FIG. 1

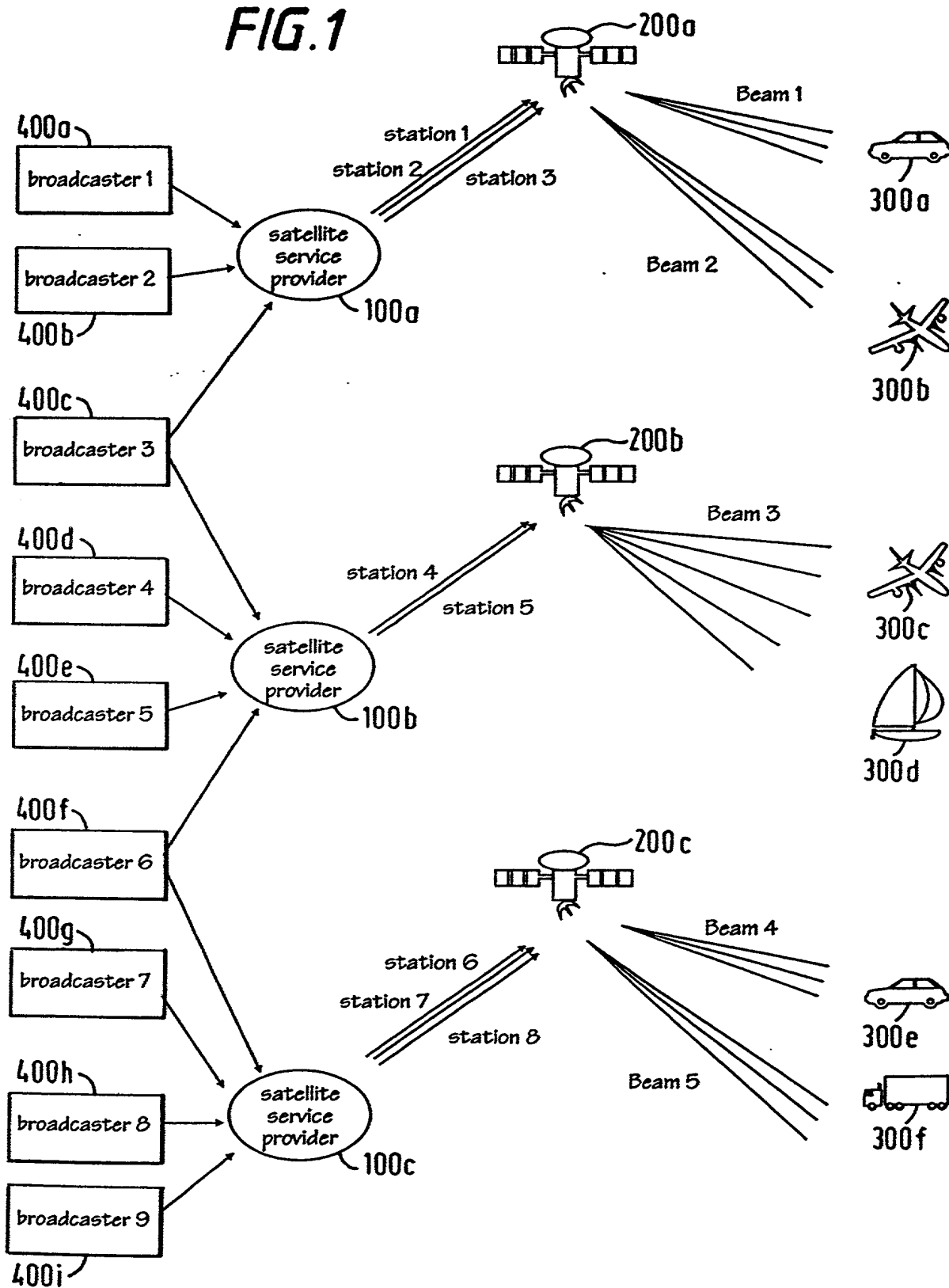


FIG. 2

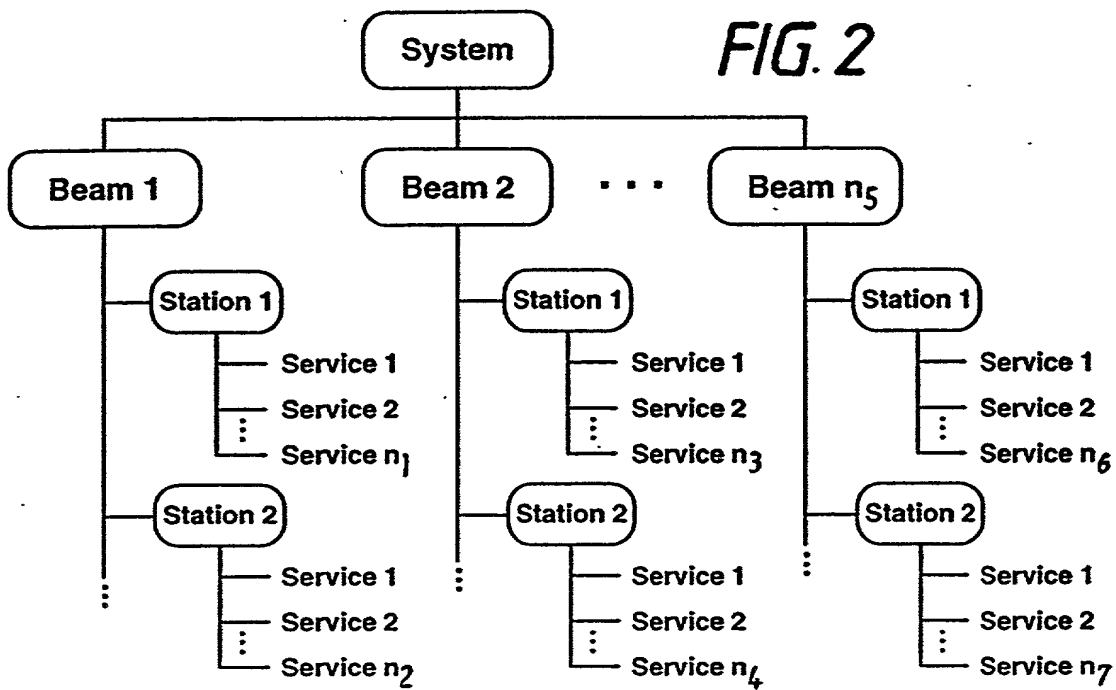


FIG. 3

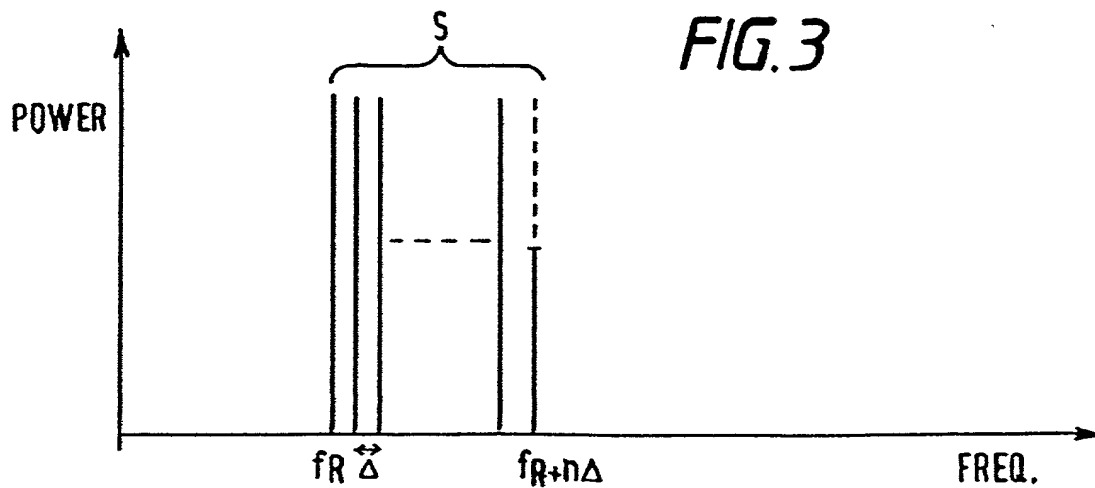
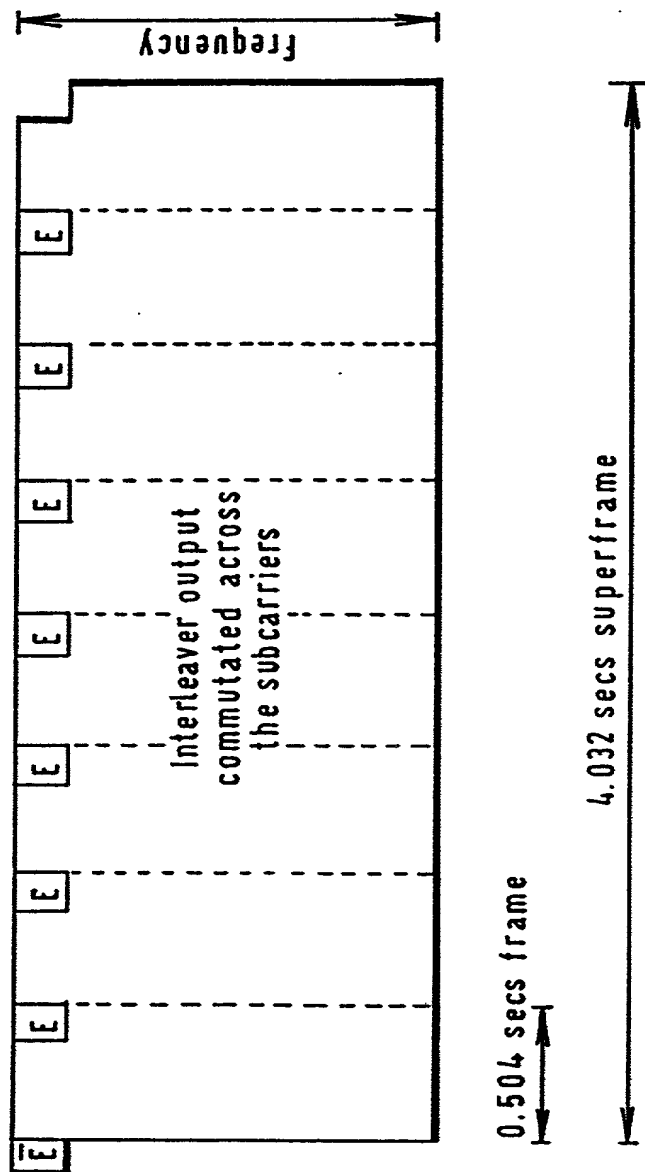


FIG. 4

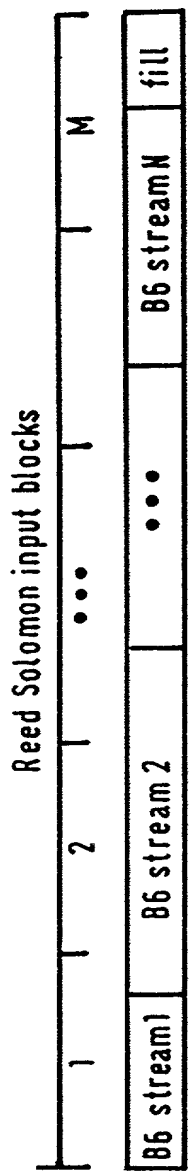


$\bar{E}$  = unique word ensemble plan

$\bar{E}$  = unique word ensemble plan

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a) format of the multiplexed B6 stream



b) format of the multiplexed B4 stream



c) format of the multiplexed services stream



FIG. 5

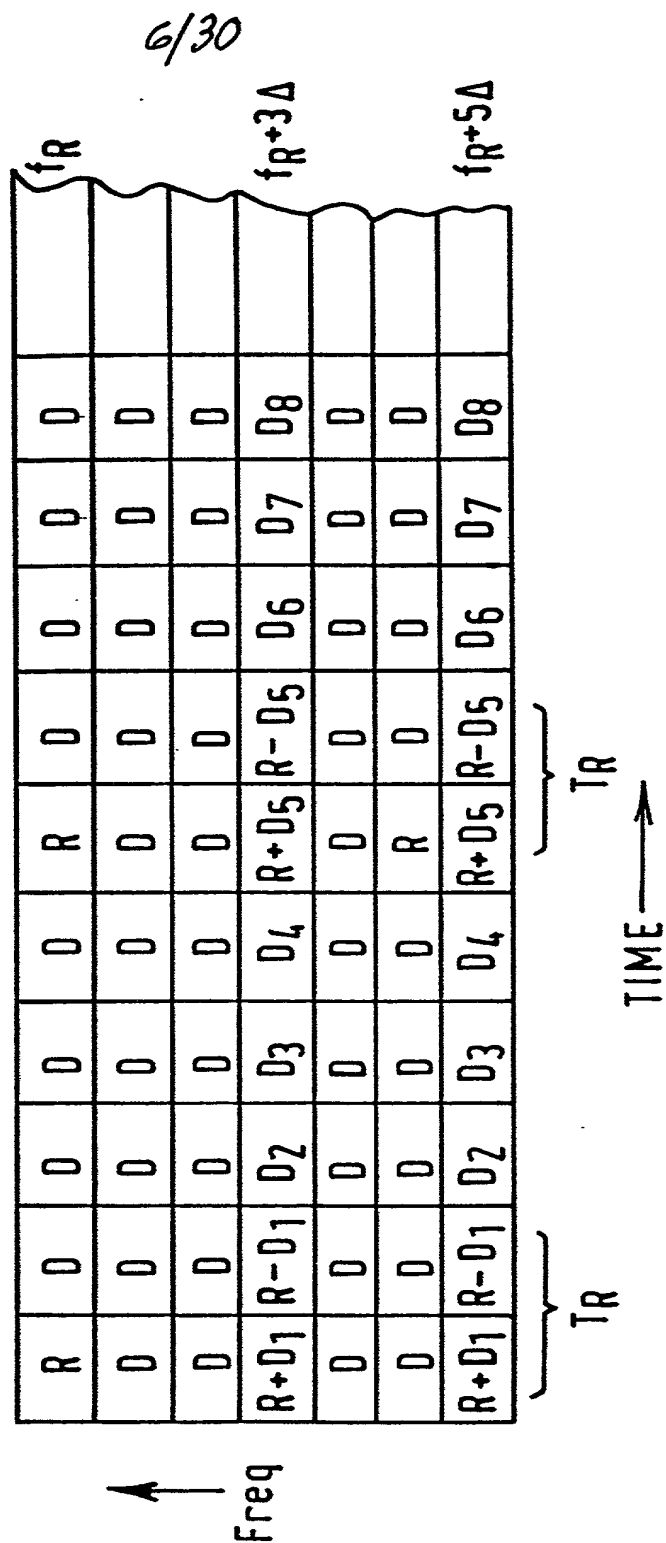
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FIG. 6a

ensemble configur.	transmitted subcarriers																
	MR=main ref; R,r=ref; D,d=data uppercase=full, lowercase=half																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0	MR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1	MR	d	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2	MR	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3	MR	D	d	.	.	.	.	.	.	.	.	.	.	.	.	.	.
4	MR	D	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5	MR	D	D	r	.	.	.	.	.	.	.	.	.	.	.	.	.
6	MR	D	D	R	.	.	.	.	.	.	.	.	.	.	.	.	.
7	MR	D	D	R	d	.	.	.	.	.	.	.	.	.	.	.	.
8	MR	D	D	R	D	.	.	.	.	.	.	.	.	.	.	.	.
9	MR	D	D	R	D	d	.	.	.	.	.	.	.	.	.	.	.
10	MR	D	D	R	D	D	.	.	.	.	.	.	.	.	.	.	.
11	MR	D	D	R	D	D	r	.	.	.	.	.	.	.	.	.	.
12	MR	D	D	R	D	D	R	.	.	.	.	.	.	.	.	.	.
13	MR	D	D	R	D	D	R	d	.	.	.	.	.	.	.	.	.
14	MR	D	D	R	D	D	R	D	.	.	.	.	.	.	.	.	.
15	MR	D	D	R	D	D	R	D	d	.	.	.	.	.	.	.	.
16	MR	D	D	R	D	D	R	D	D	.	.	.	.	.	.	.	.
17	MR	D	D	R	D	D	R	D	D	r	.	.	.	.	.	.	.
18	MR	D	D	R	D	D	R	D	D	R	.	.	.	.	.	.	.
19	MR	D	D	R	D	D	R	D	D	R	d	.	.	.	.	.	.
20	MR	D	D	R	D	D	R	D	D	R	D	.	.	.	.	.	.
21	MR	D	D	R	D	D	R	D	D	R	D	d	.	.	.	.	.
22	MR	D	D	R	D	D	R	D	D	R	D	D	.	.	.	.	.
23	MR	D	D	R	D	D	R	D	D	R	D	D	r	.	.	.	.
24	MR	D	D	R	D	D	R	D	D	R	D	D	R	.	.	.	.
25	MR	D	D	R	D	D	R	D	D	R	D	D	R	d	.	.	.
26	MR	D	D	R	D	D	R	D	D	R	D	D	R	D	.	.	.
27	MR	D	D	R	D	D	R	D	D	R	D	D	R	D	d	.	.
28	MR	D	D	R	D	D	R	D	D	R	D	D	R	D	D	.	.
29	MR	D	D	R	D	D	R	D	D	R	D	D	R	D	D	r	.
30	MR	D	D	R	D	D	R	D	D	R	D	D	R	D	D	R	.
31	MR	D	D	R	D	D	R	D	D	R	D	D	R	D	D	R	d
32	MR	D	D	R	D	D	R	D	D	R	D	D	R	D	D	R	D

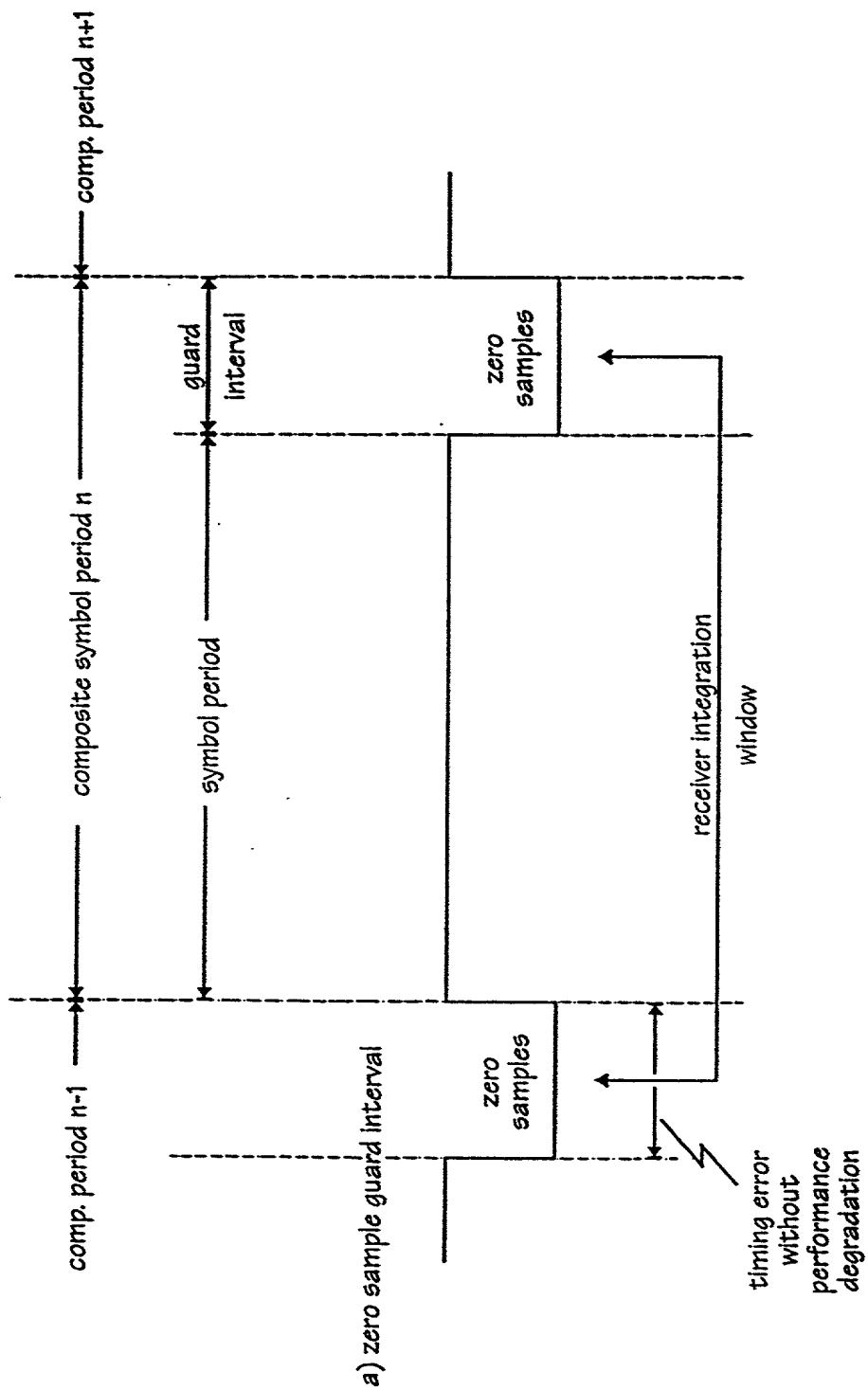
Frequency

FIG. 6b



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FIG. 7



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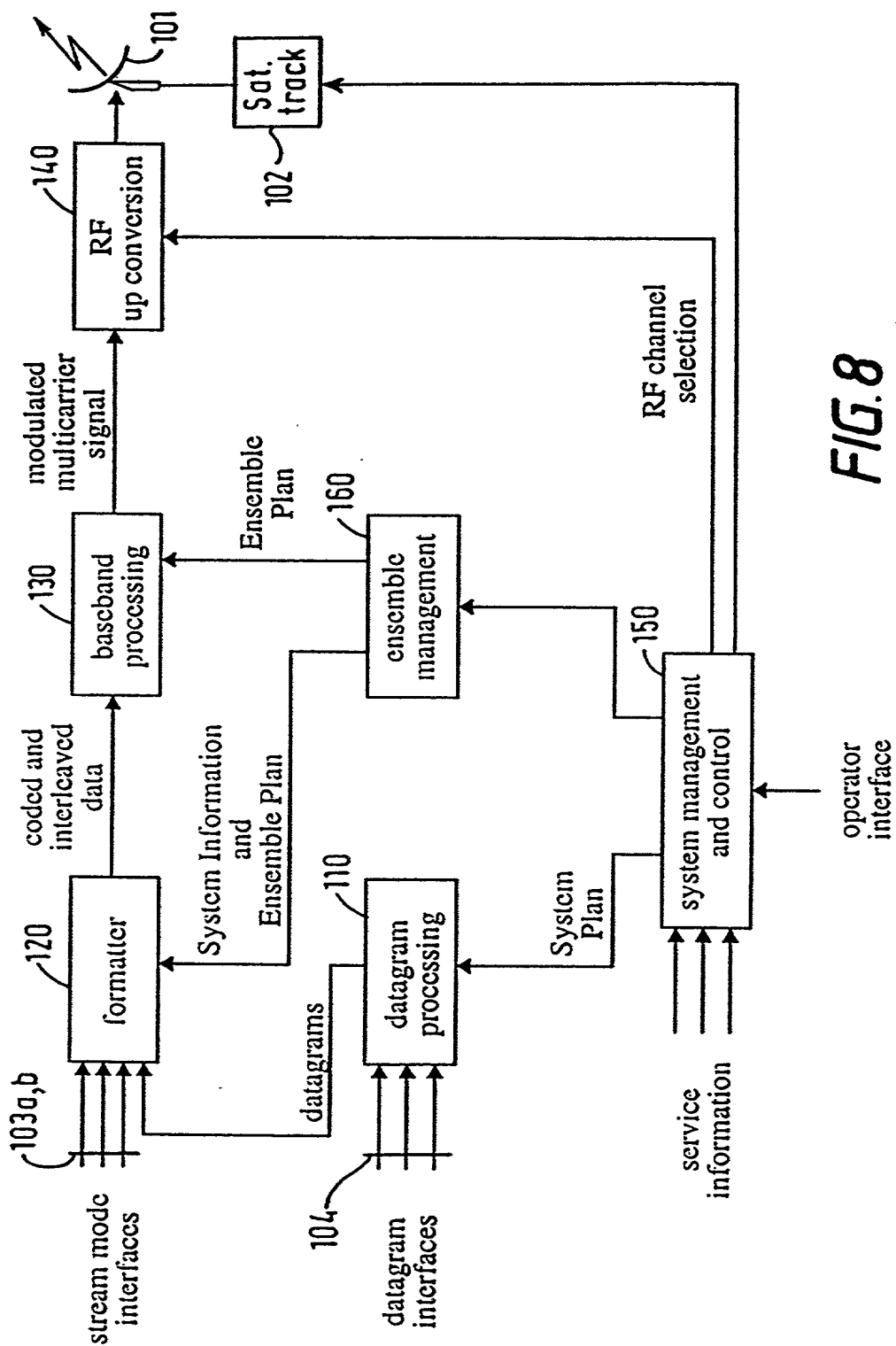
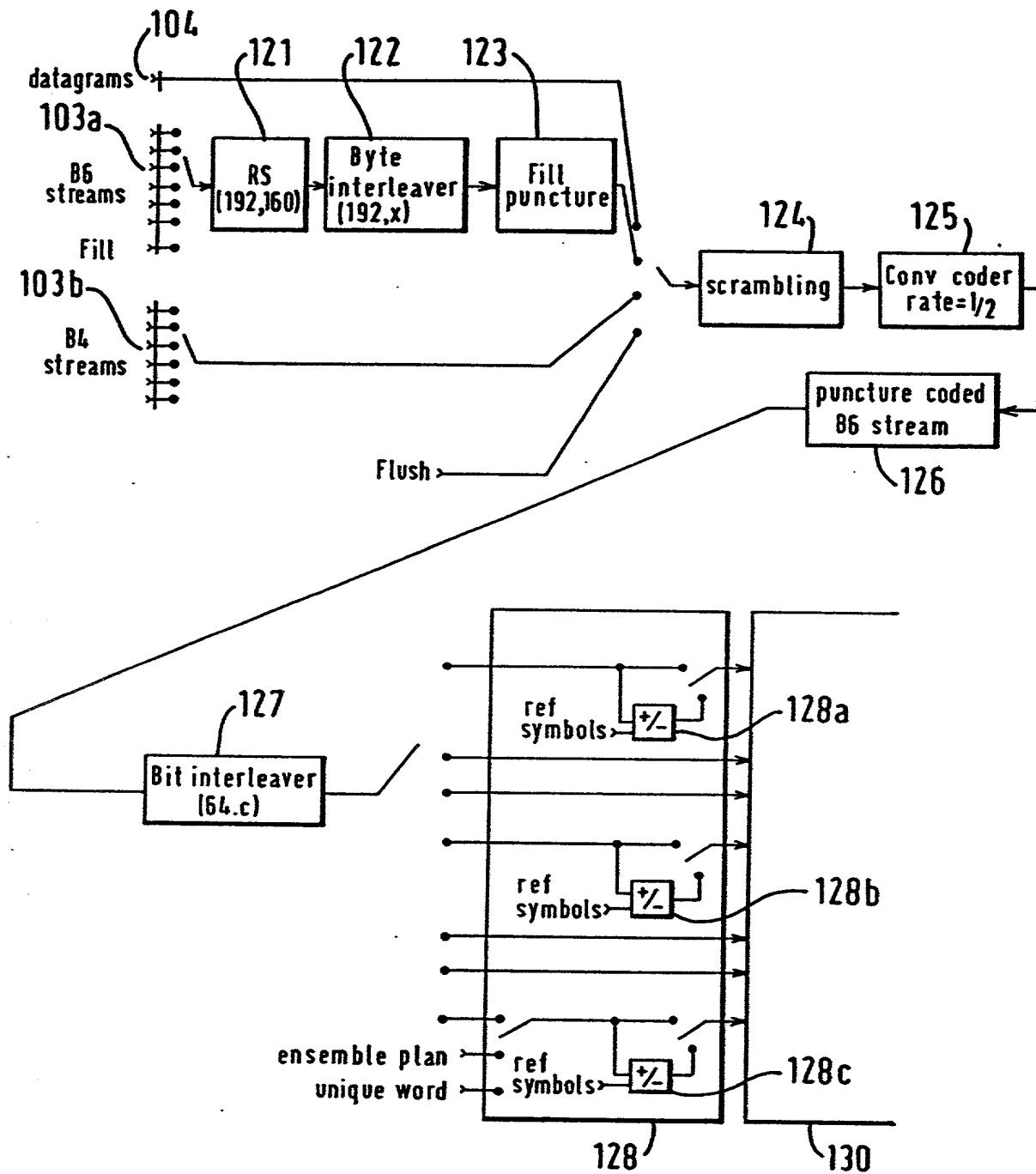


FIG. 8



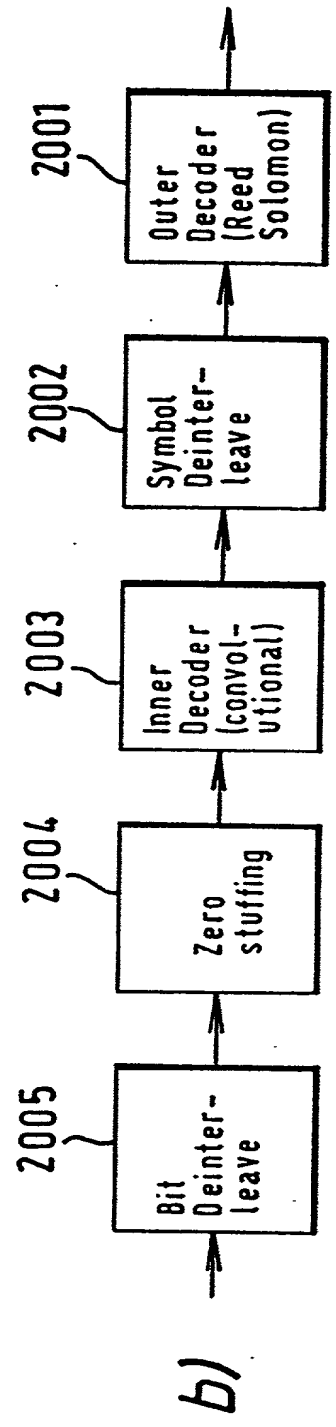
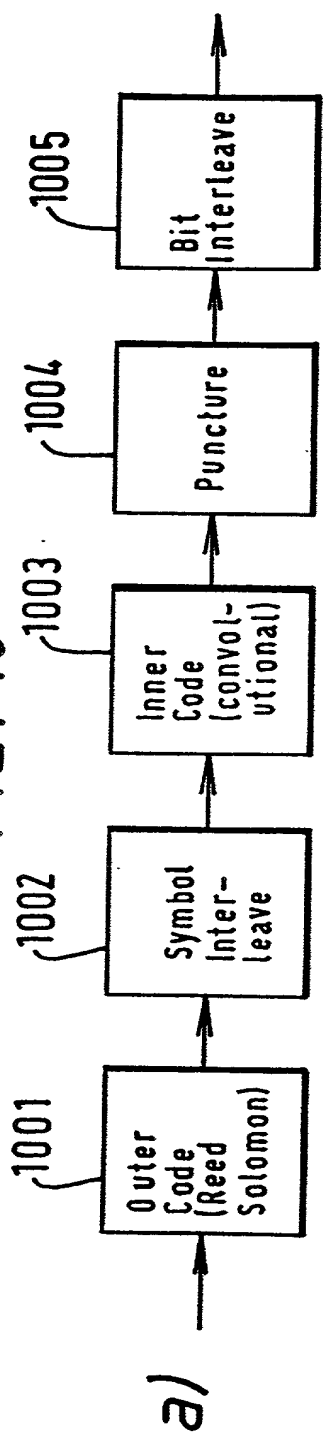
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FIG. 9



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FIG. 10



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FIG. 11

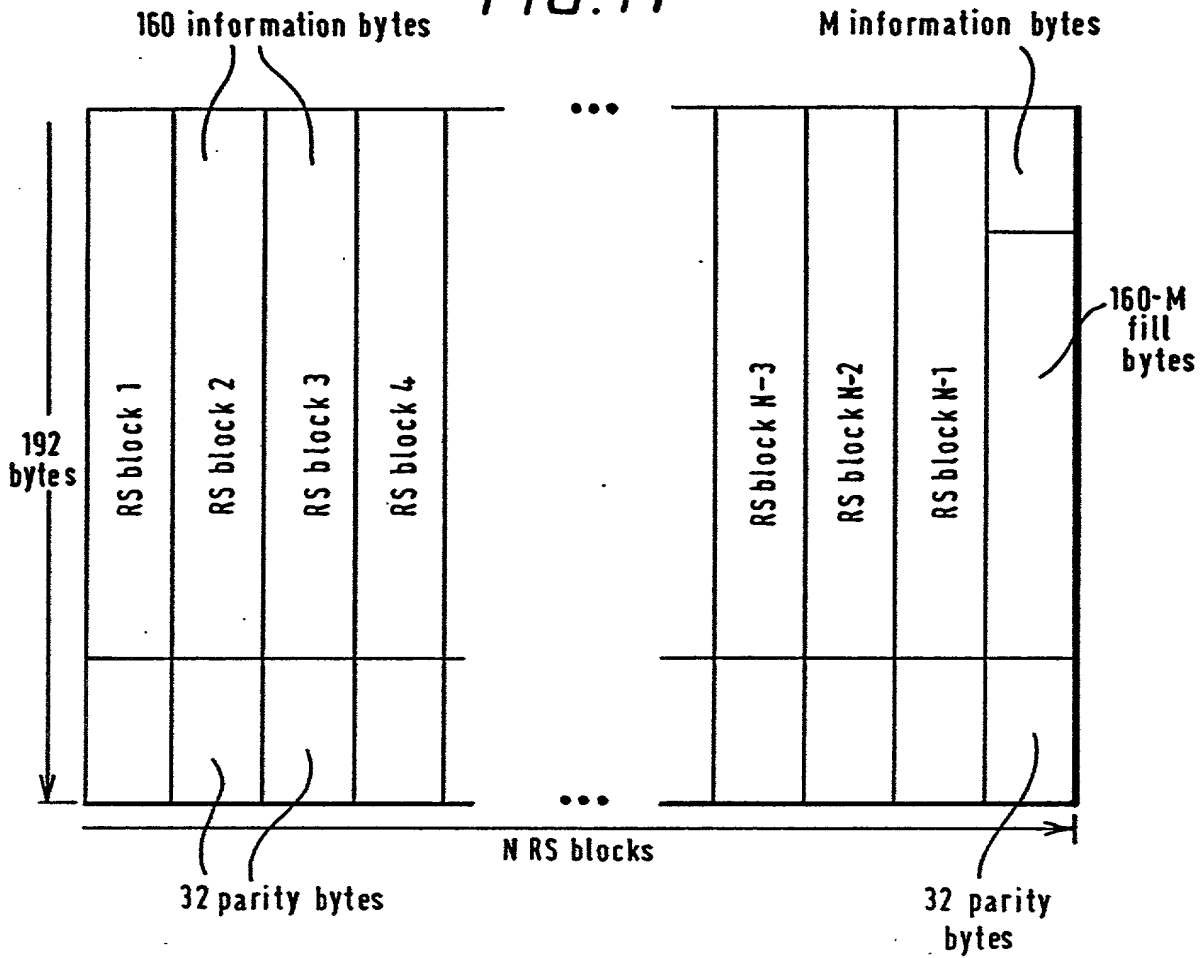


FIG. 12

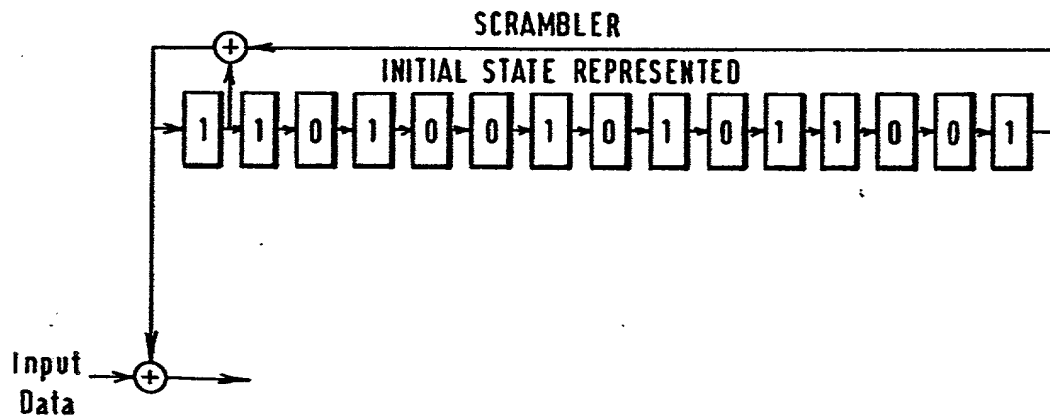
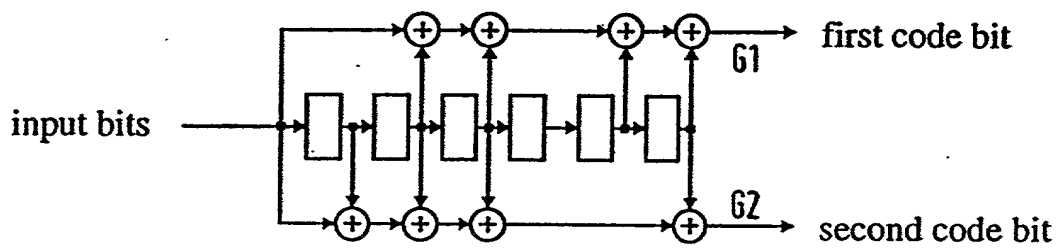


FIG. 13



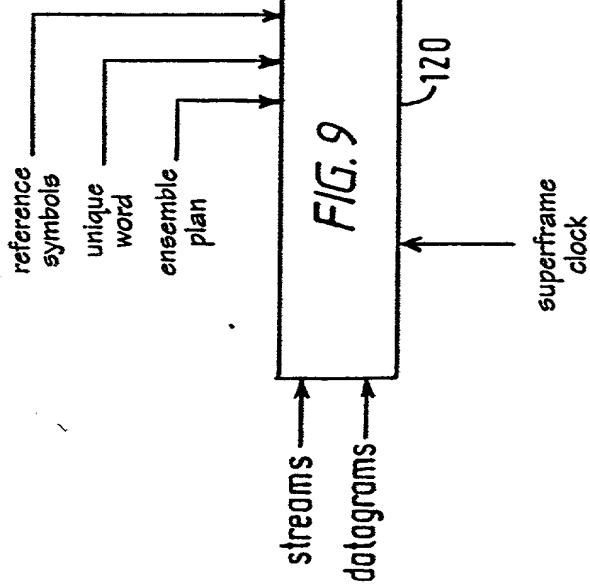
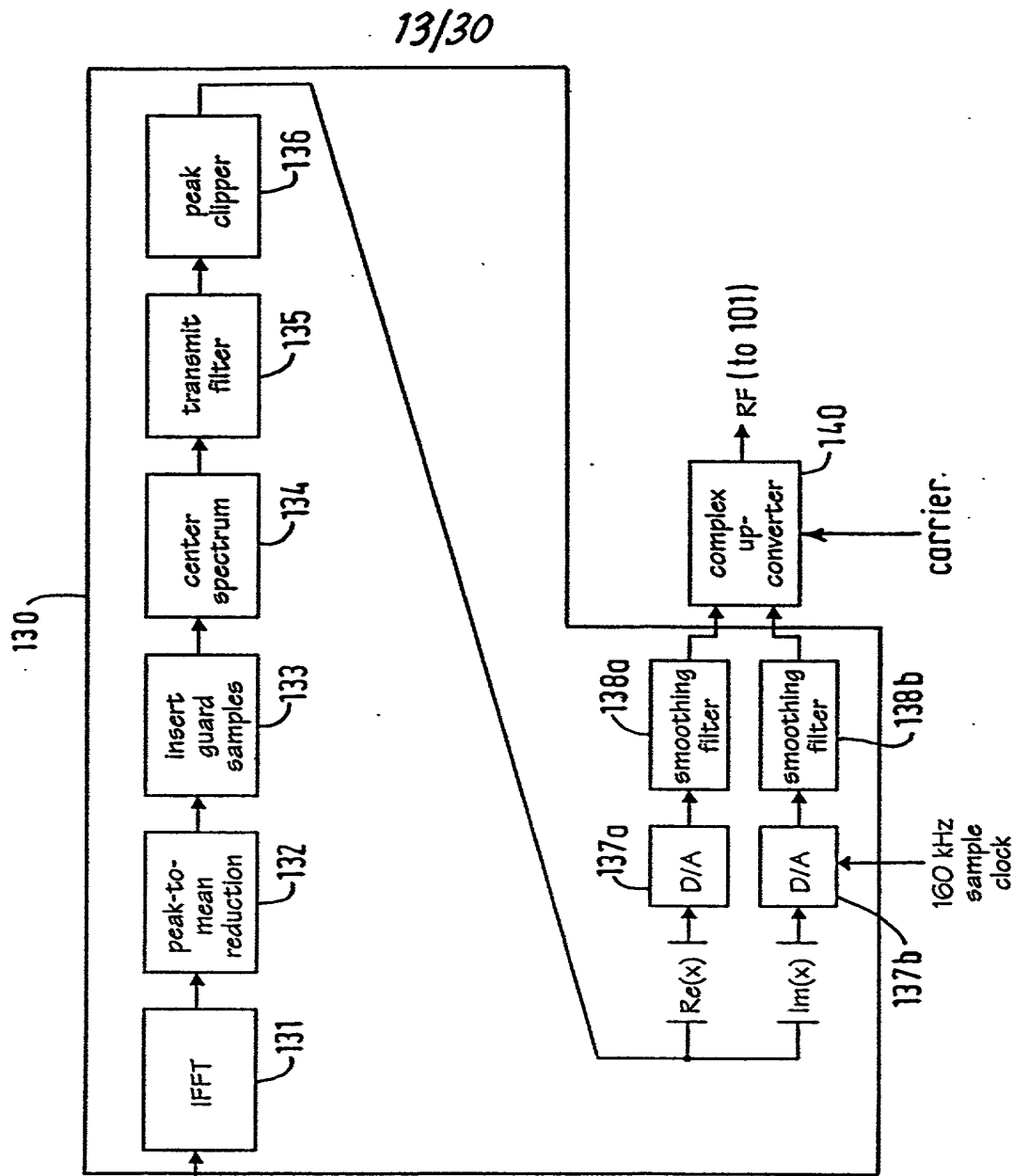


FIG. 14



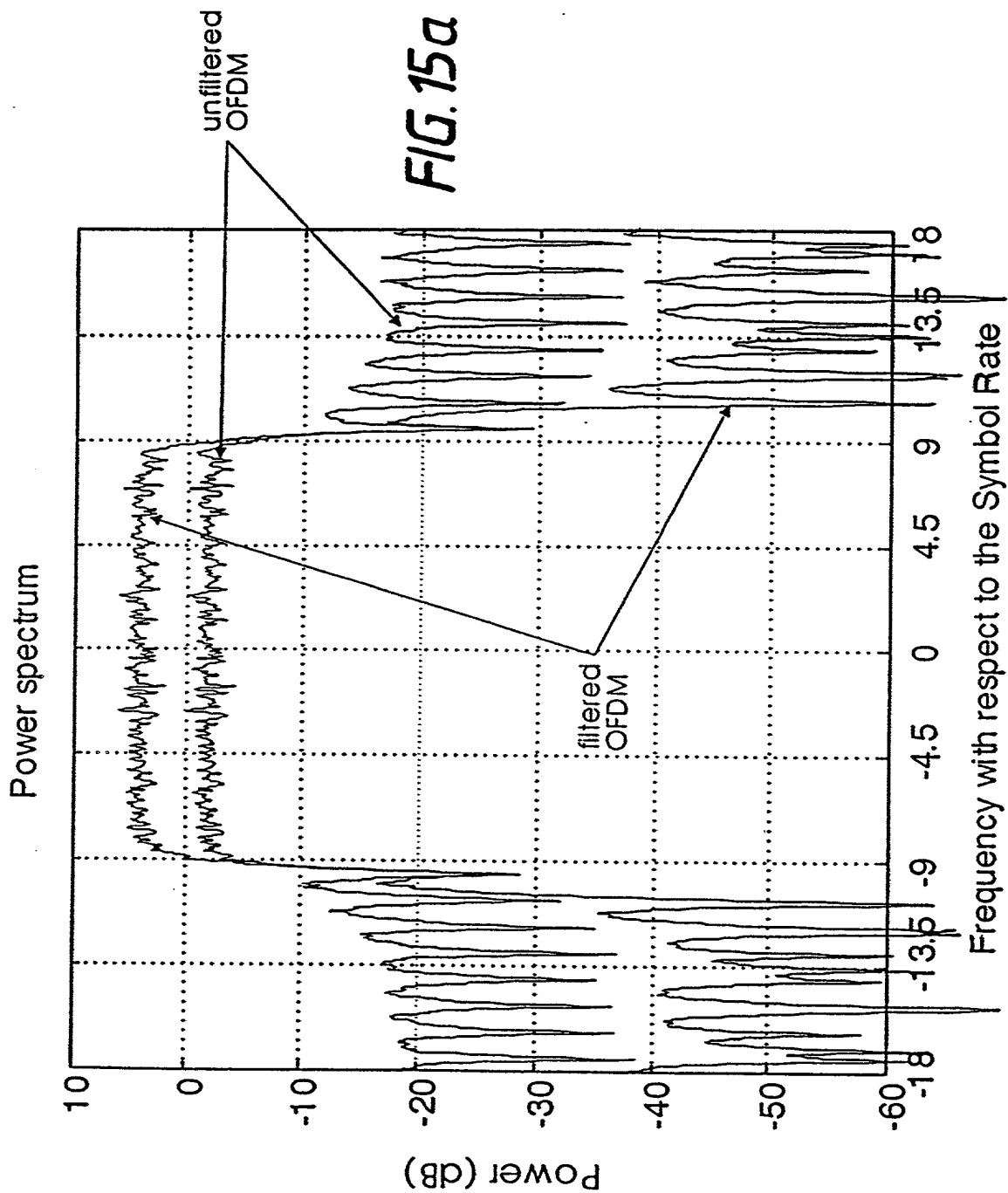


FIG.15b

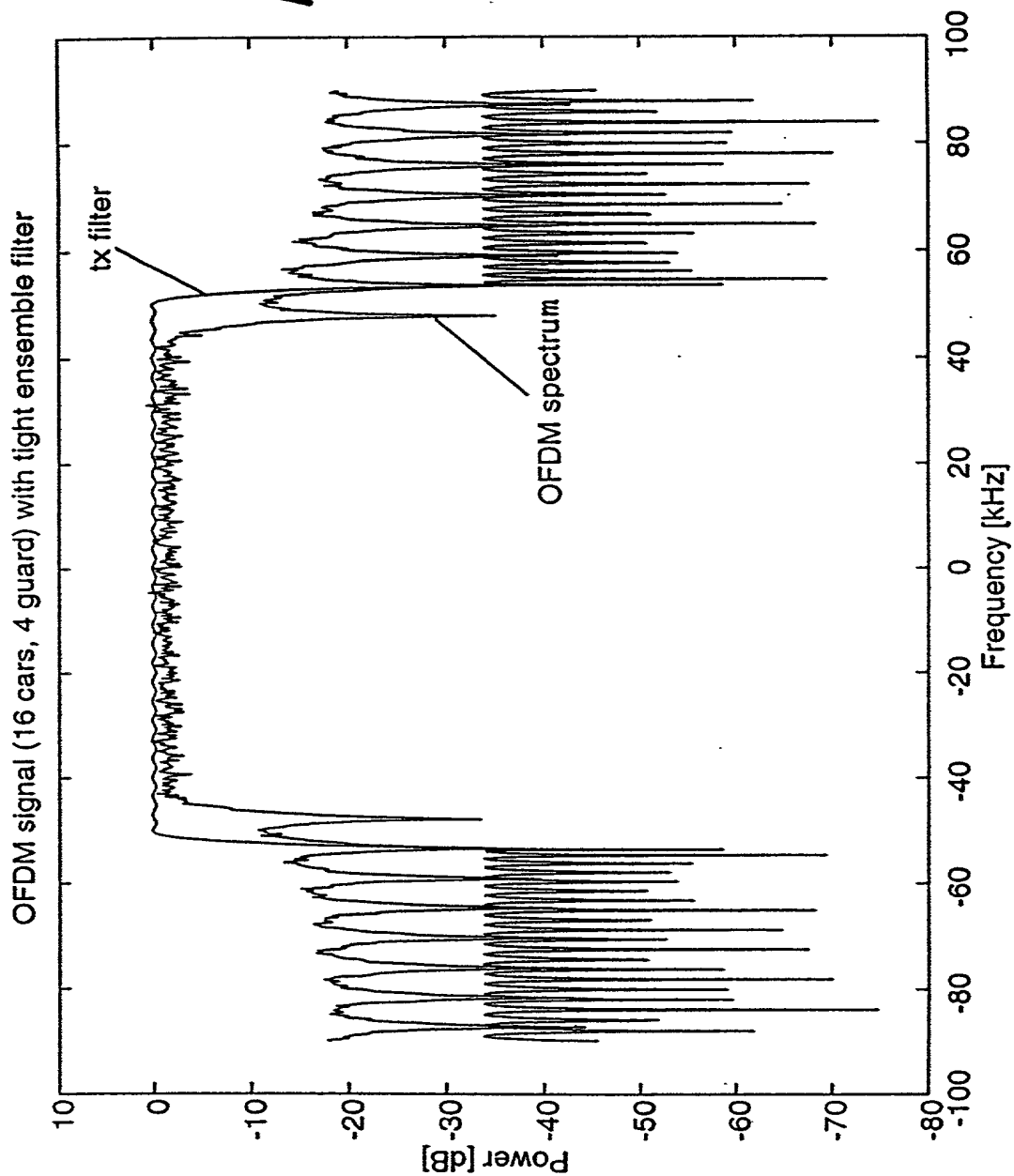


FIG. 16a

single subcarrier signal processing

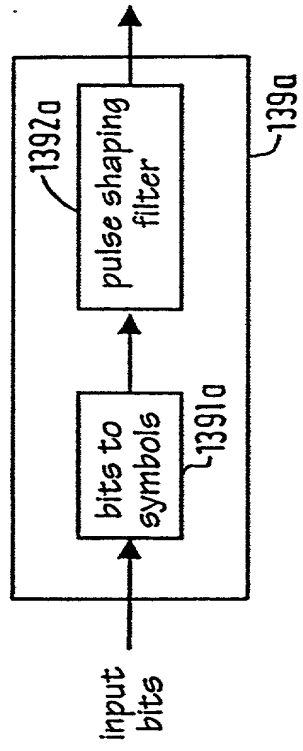
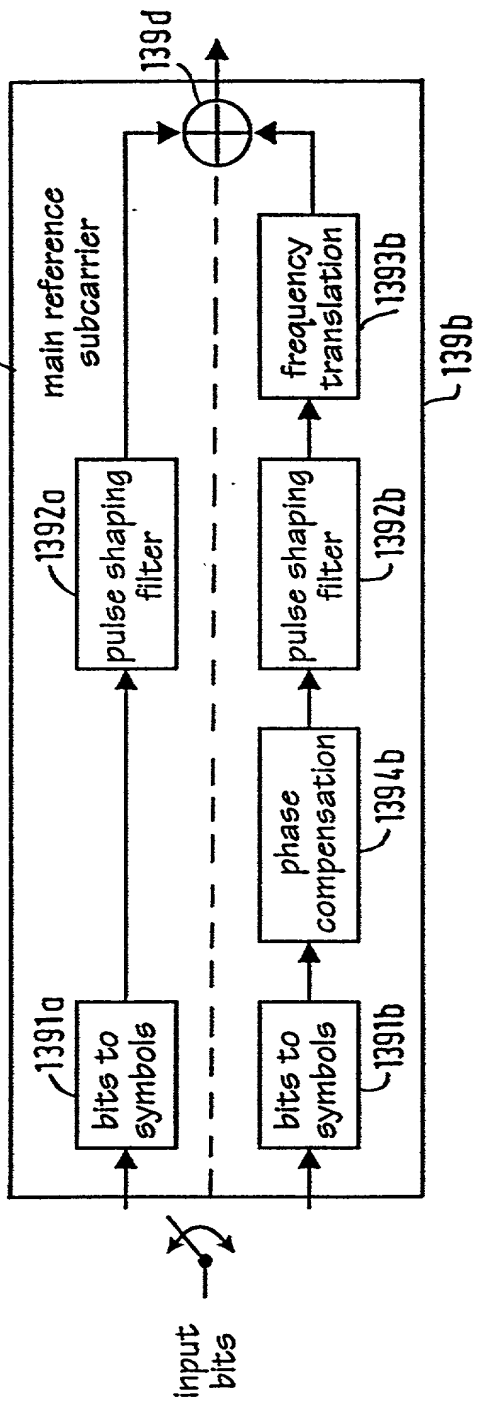
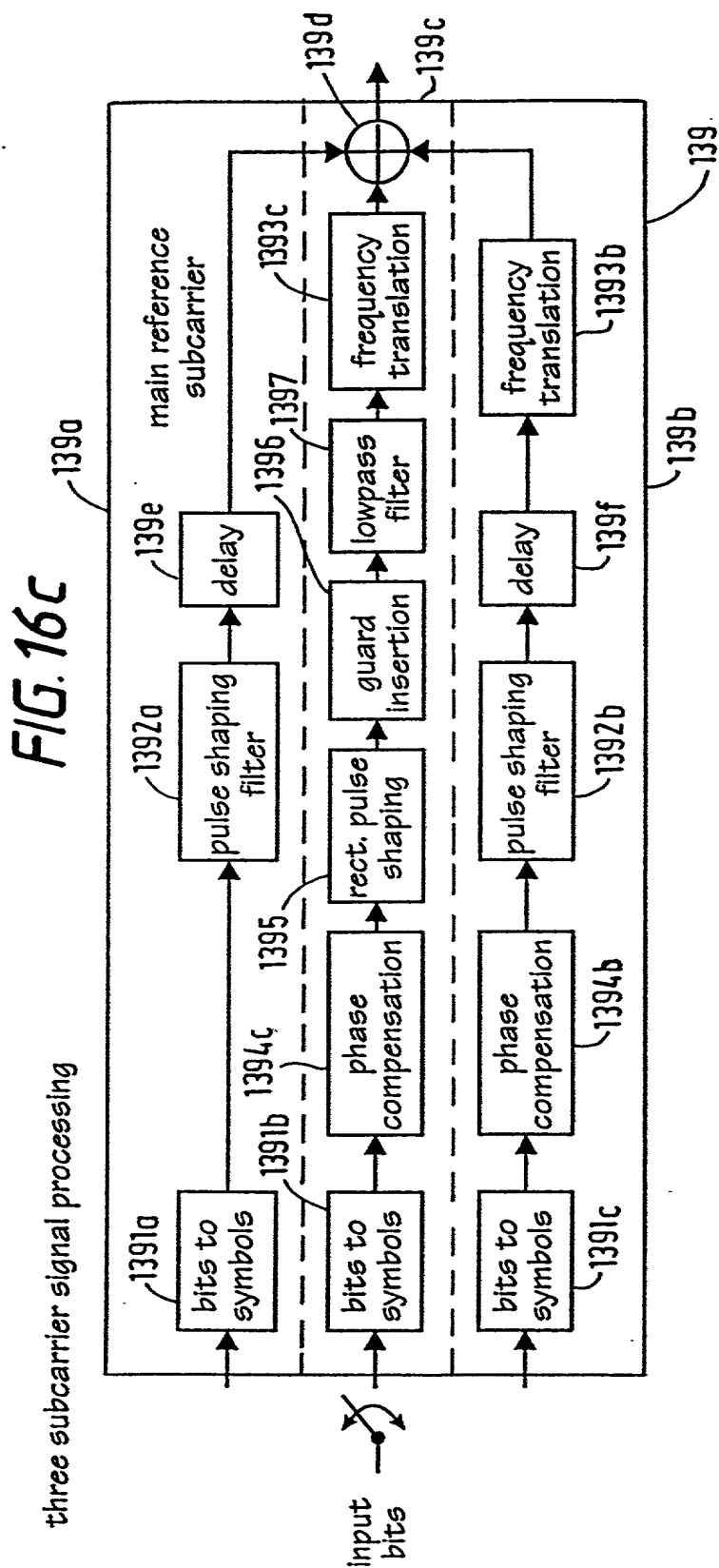


FIG. 16b

two subcarrier signal processing







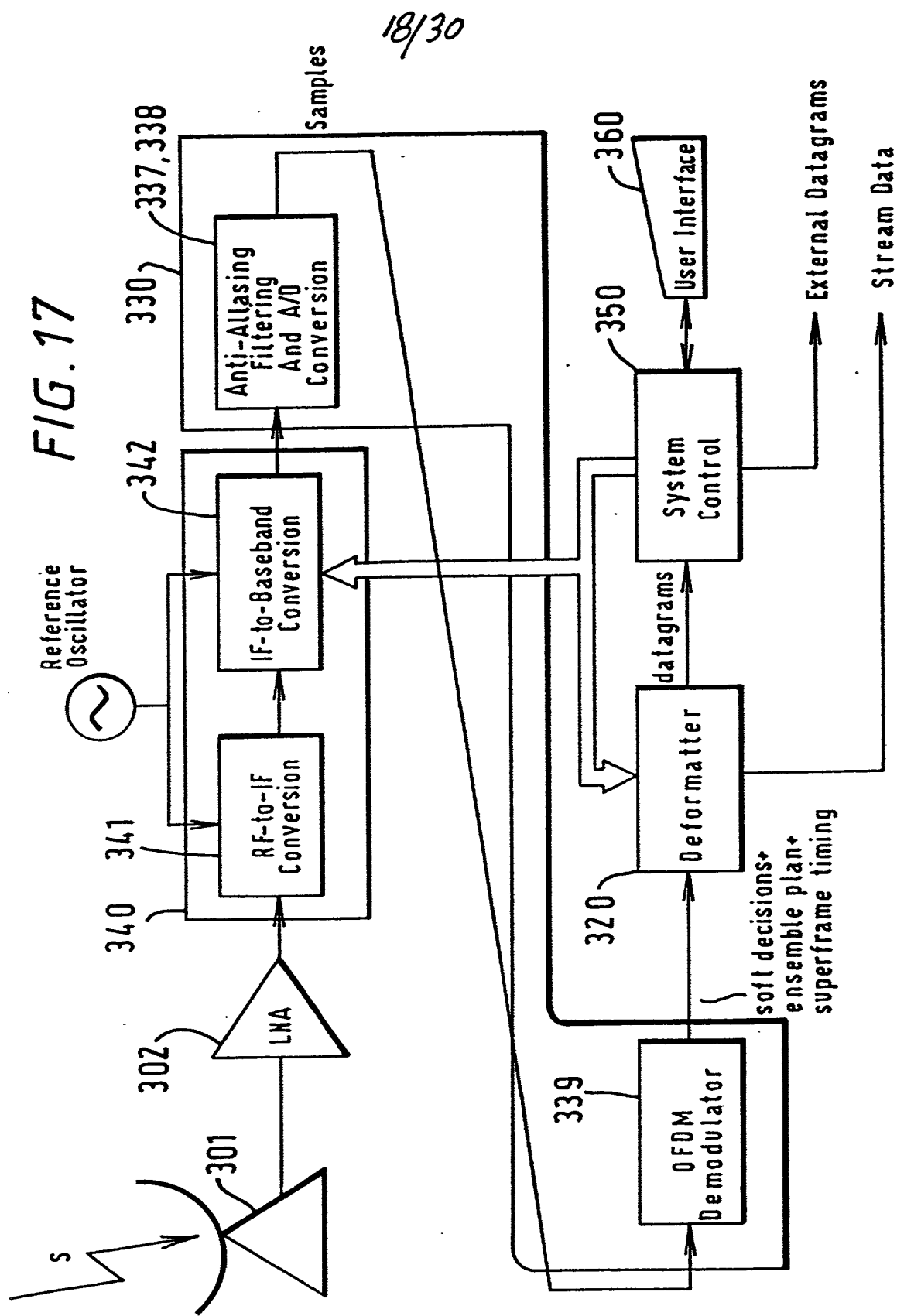


FIG. 18

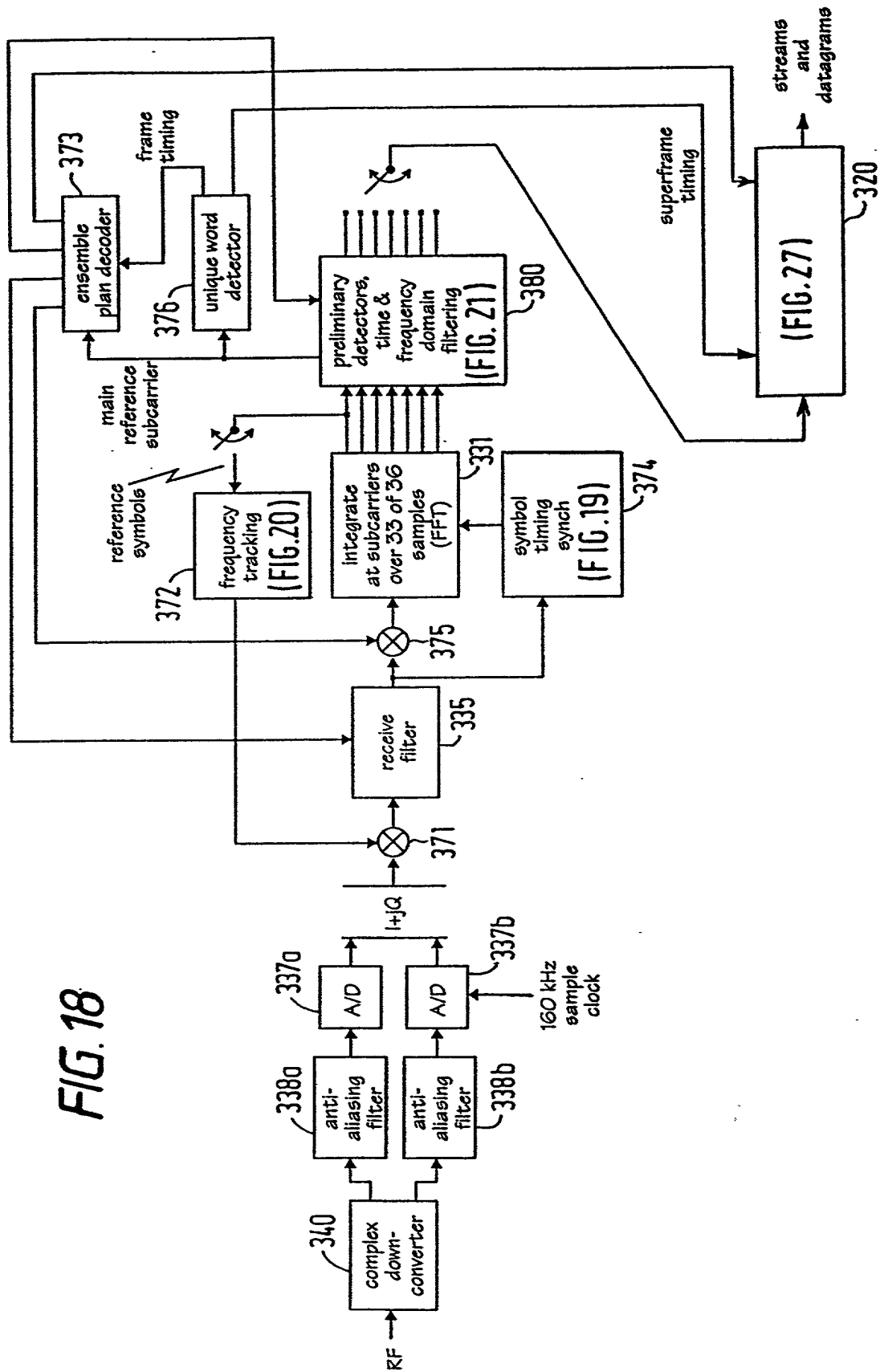


FIG. 19

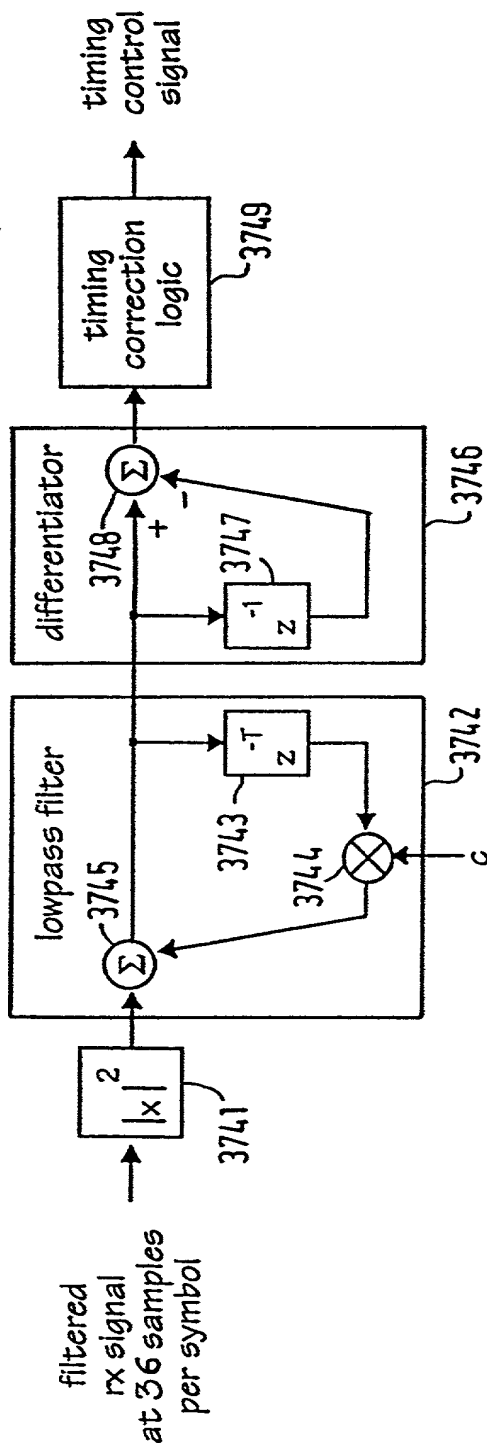


FIG. 20

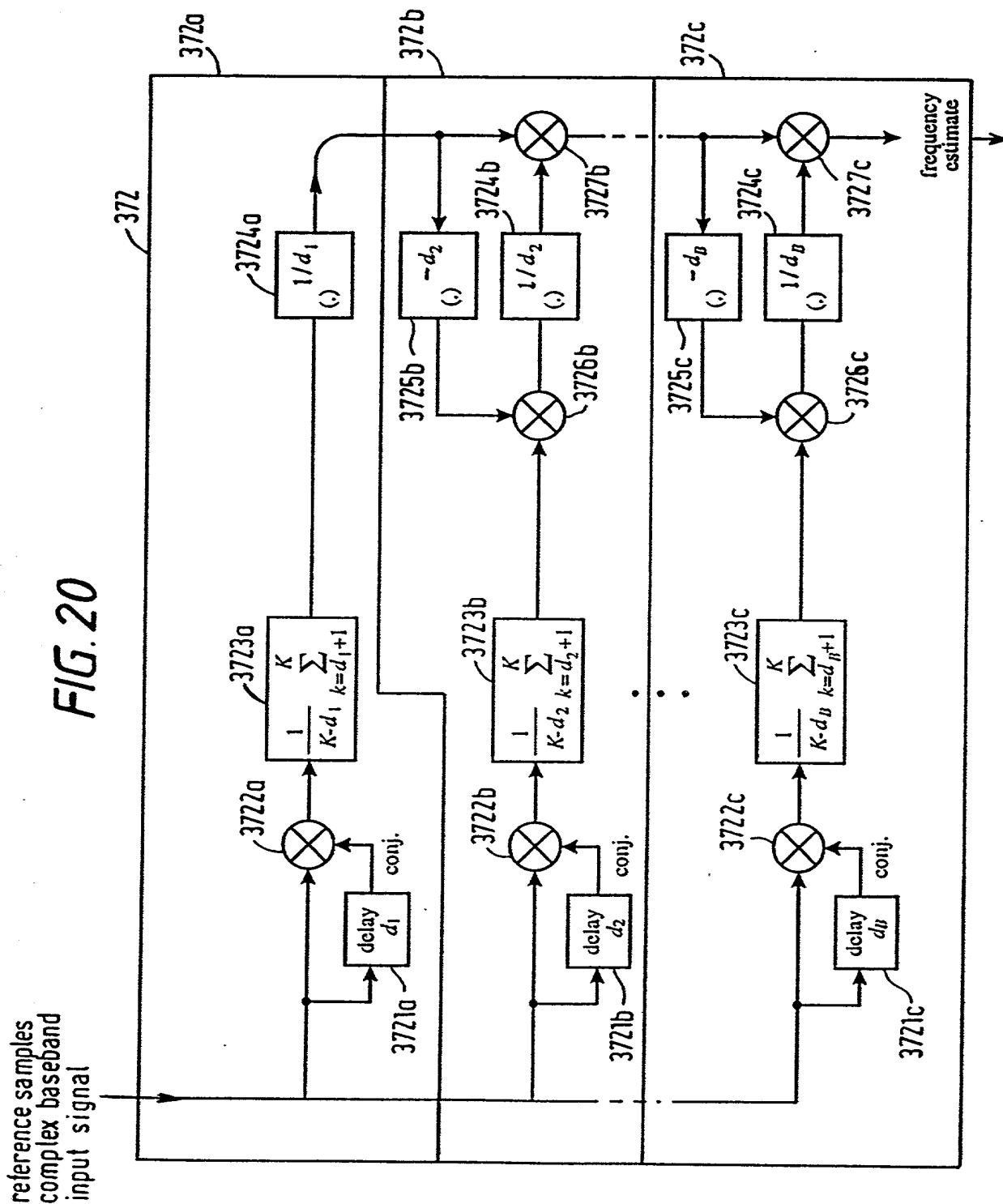


FIG. 21

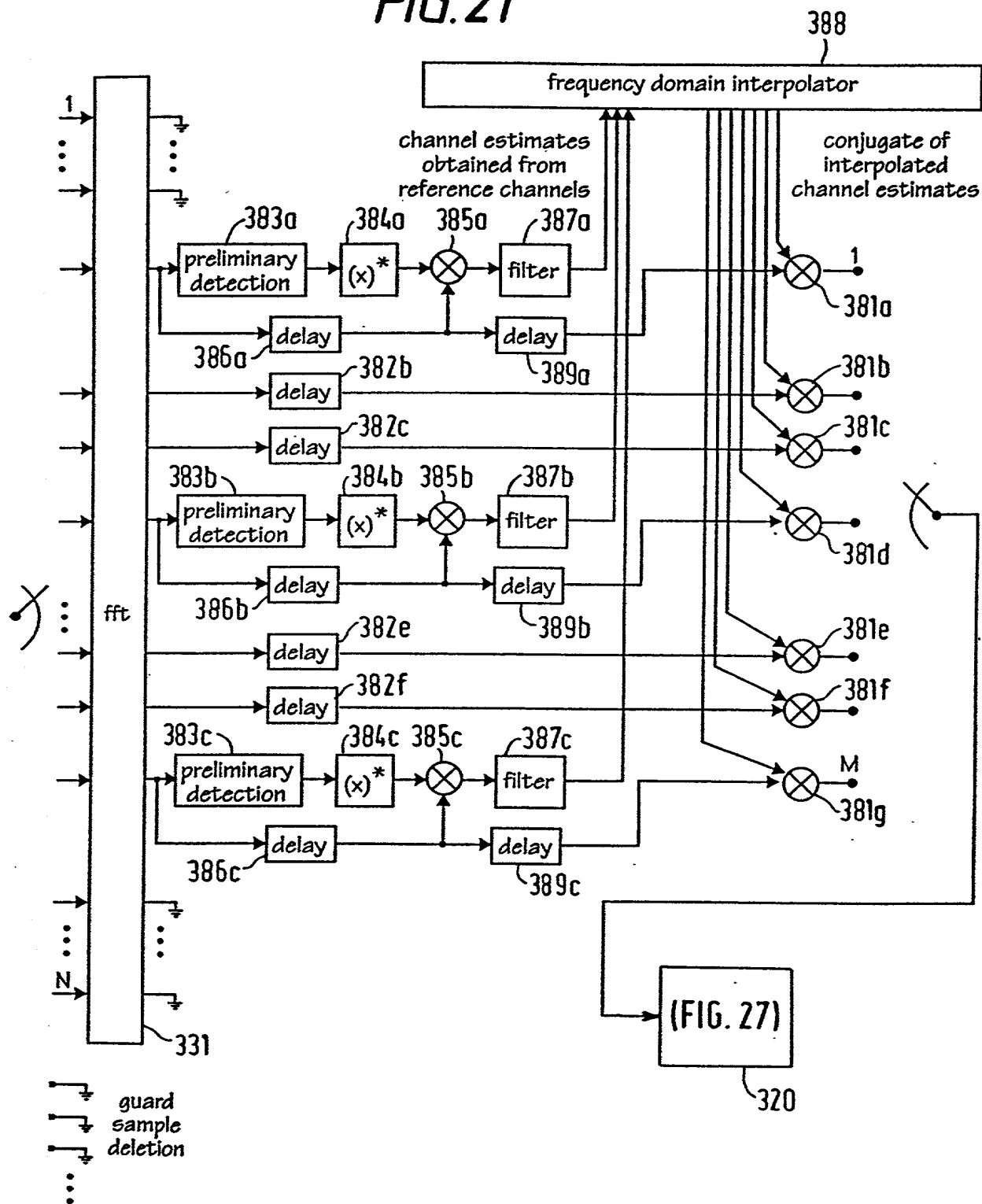


FIG. 22

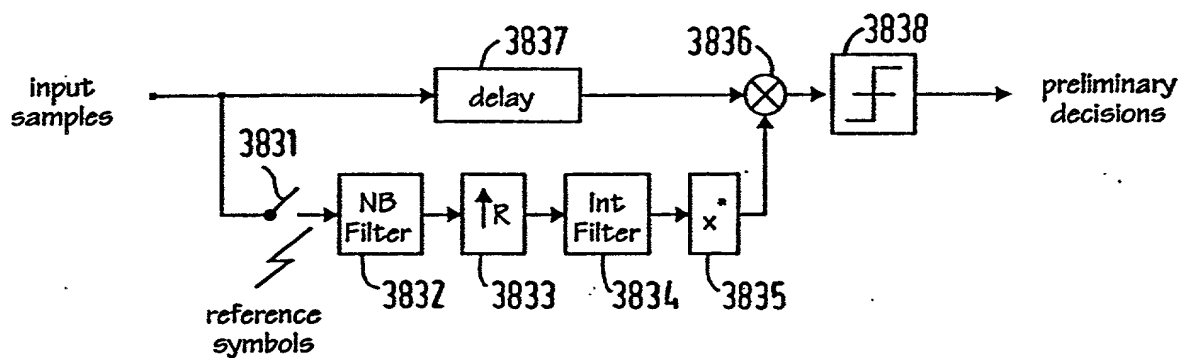
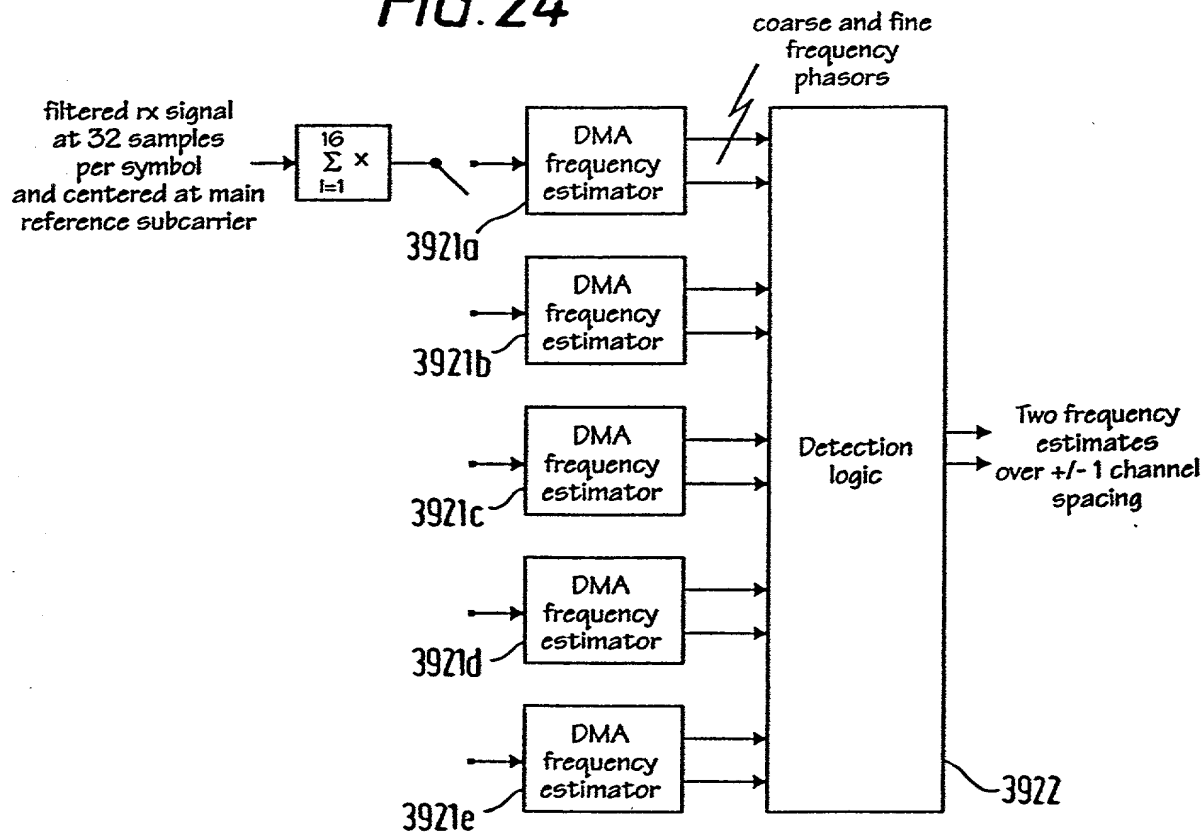


FIG. 24



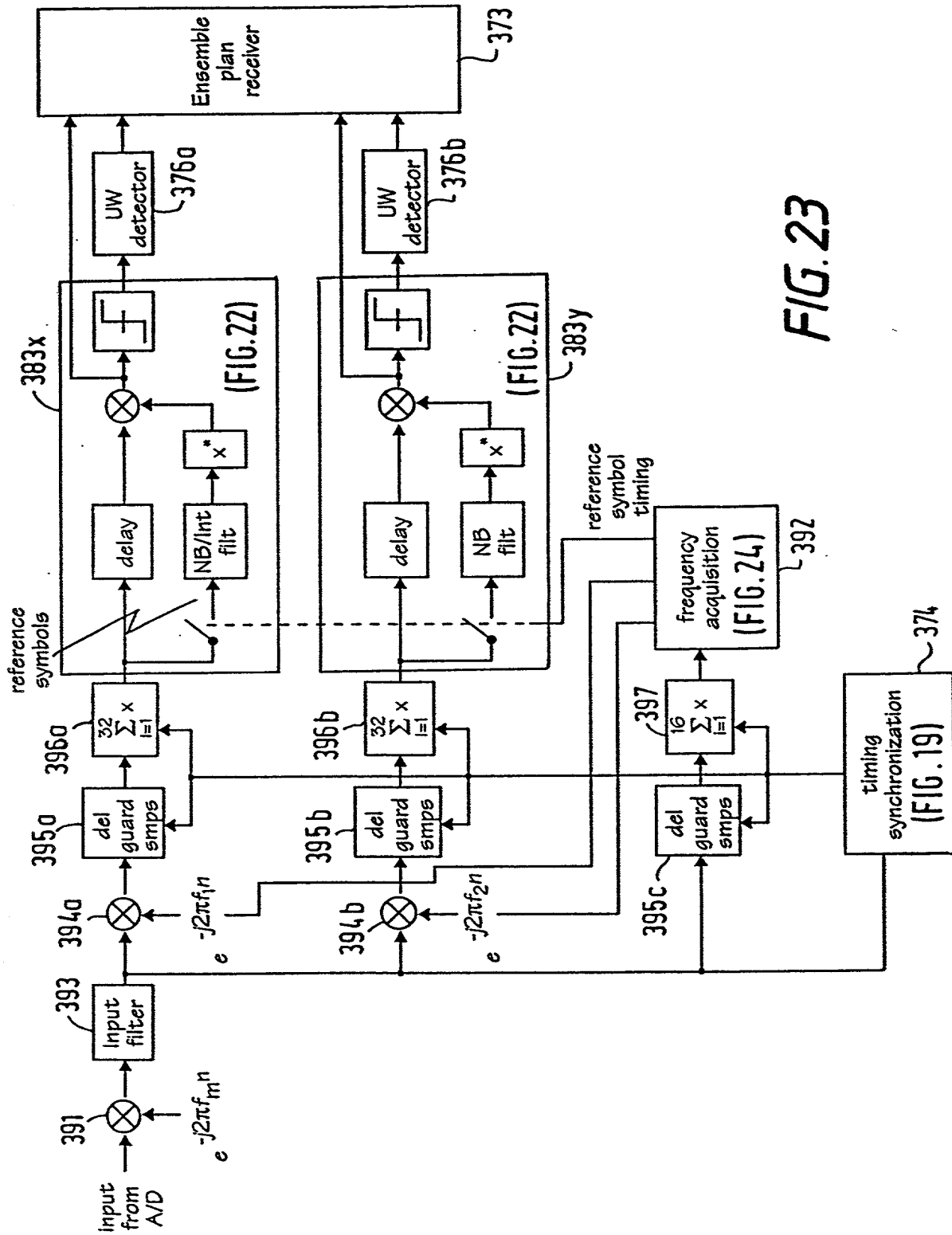


FIG. 23



FIG. 25

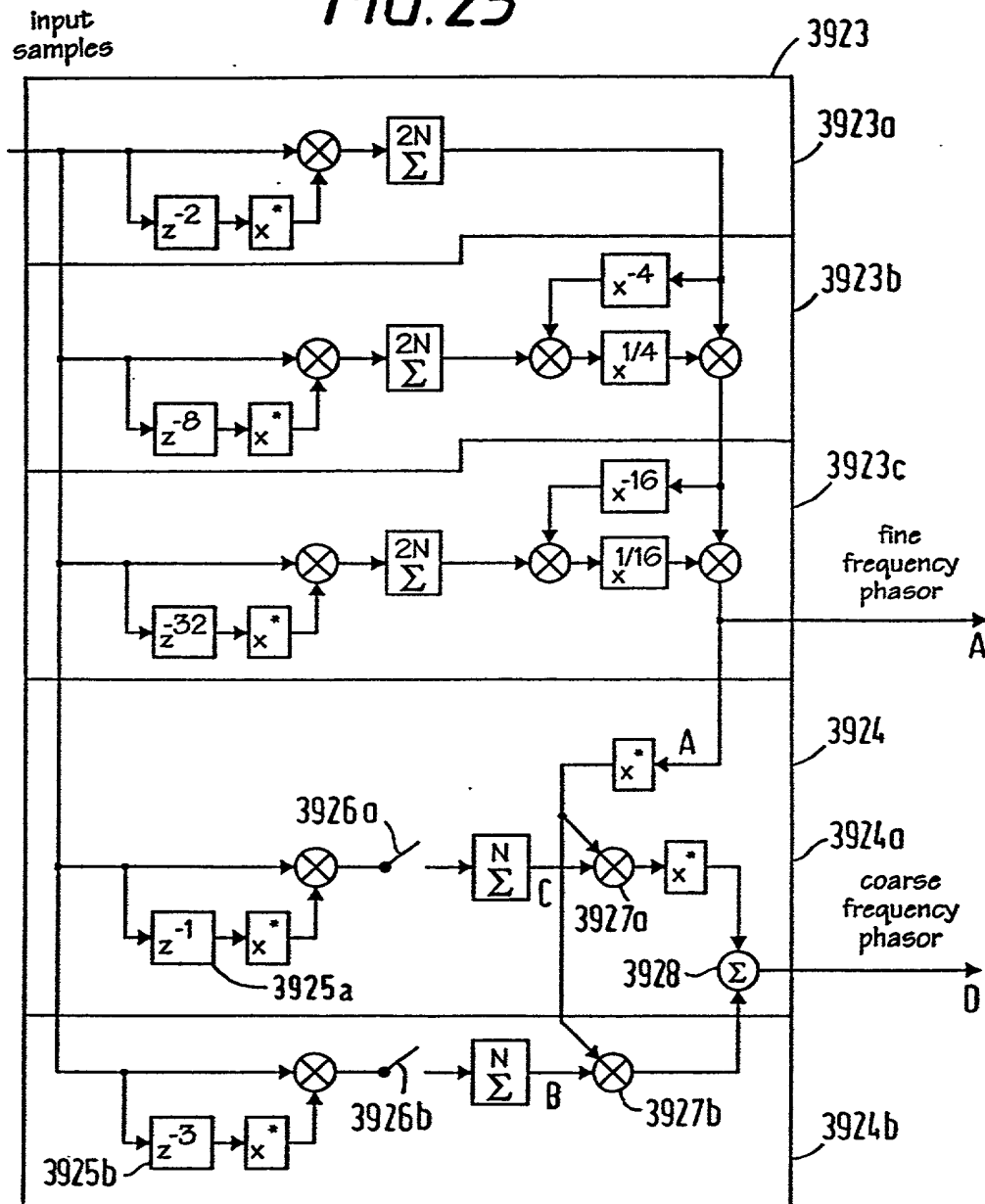
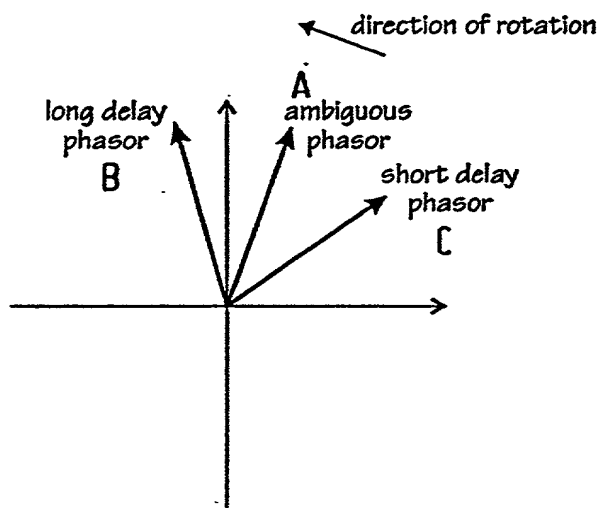
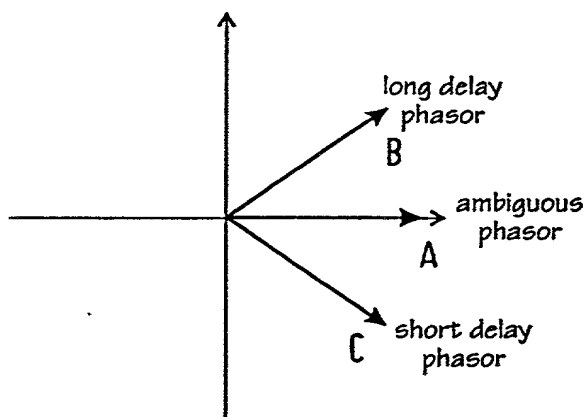


FIG. 26

a) long and short delay phasors relative to the ambiguous phasor



b) long and short delay phasors after rotation by the ambiguous phasor



c) final unambiguous frequency phasor

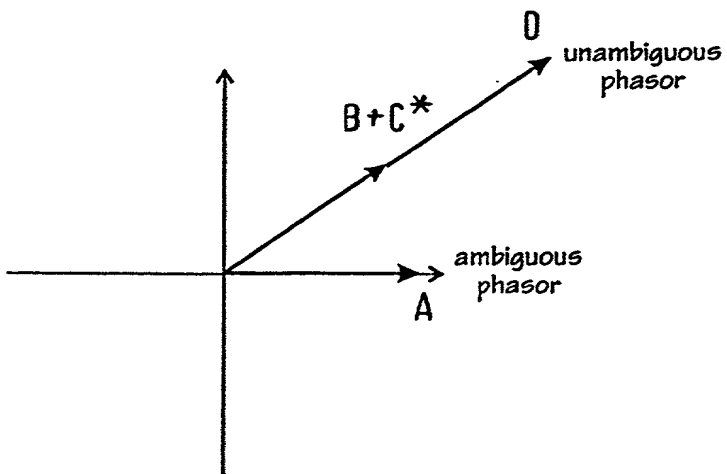


FIG. 27

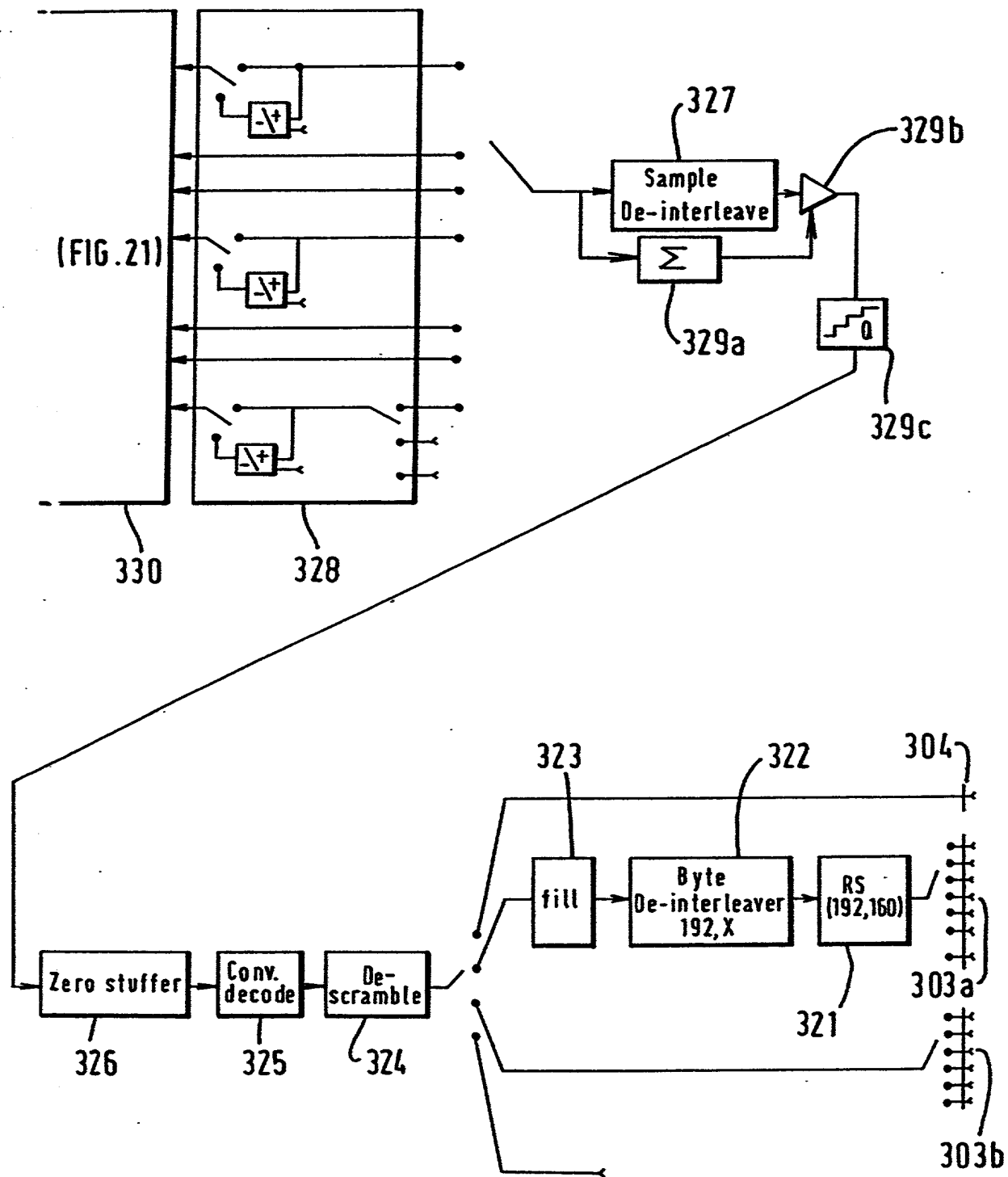


FIG. 28

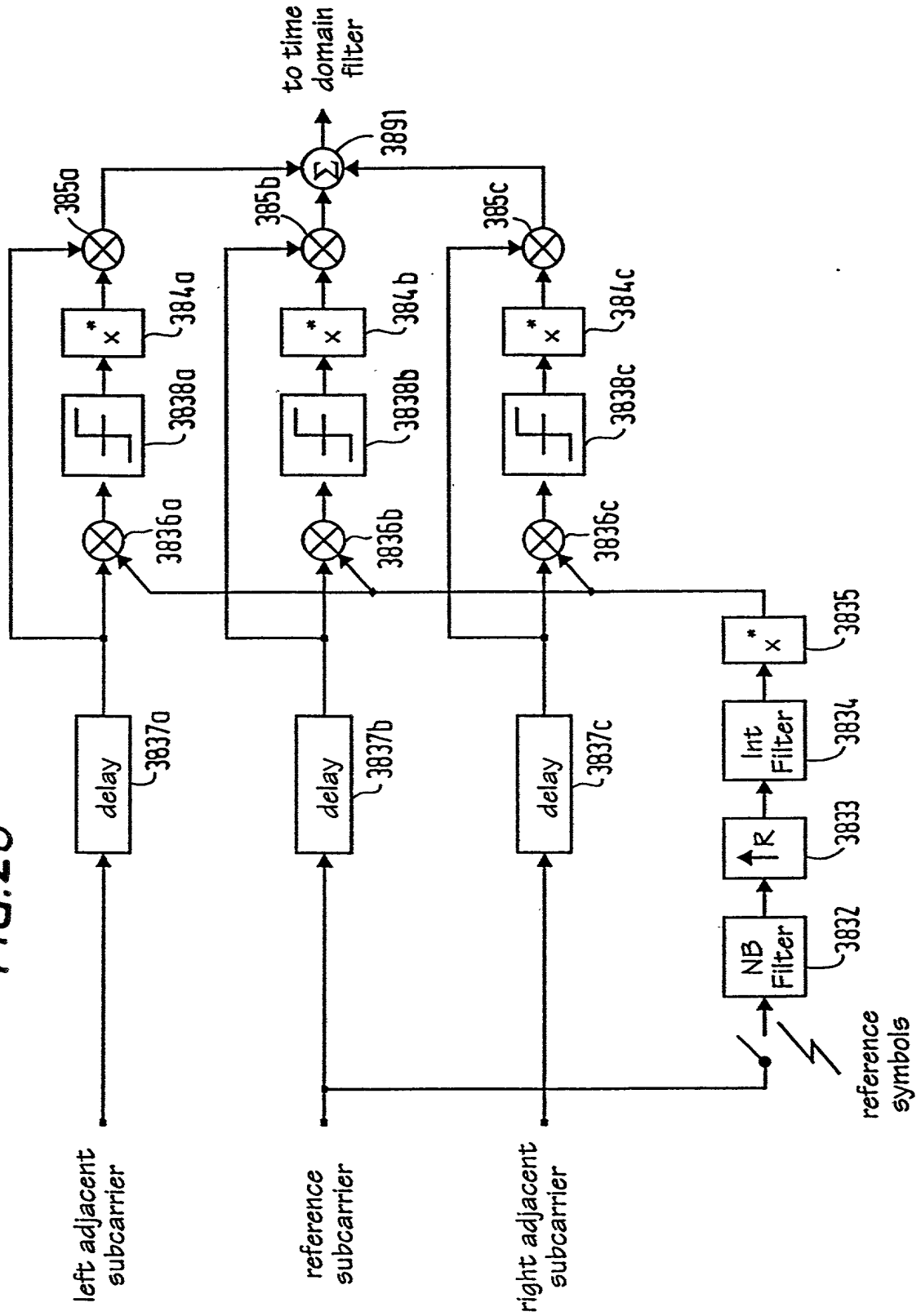
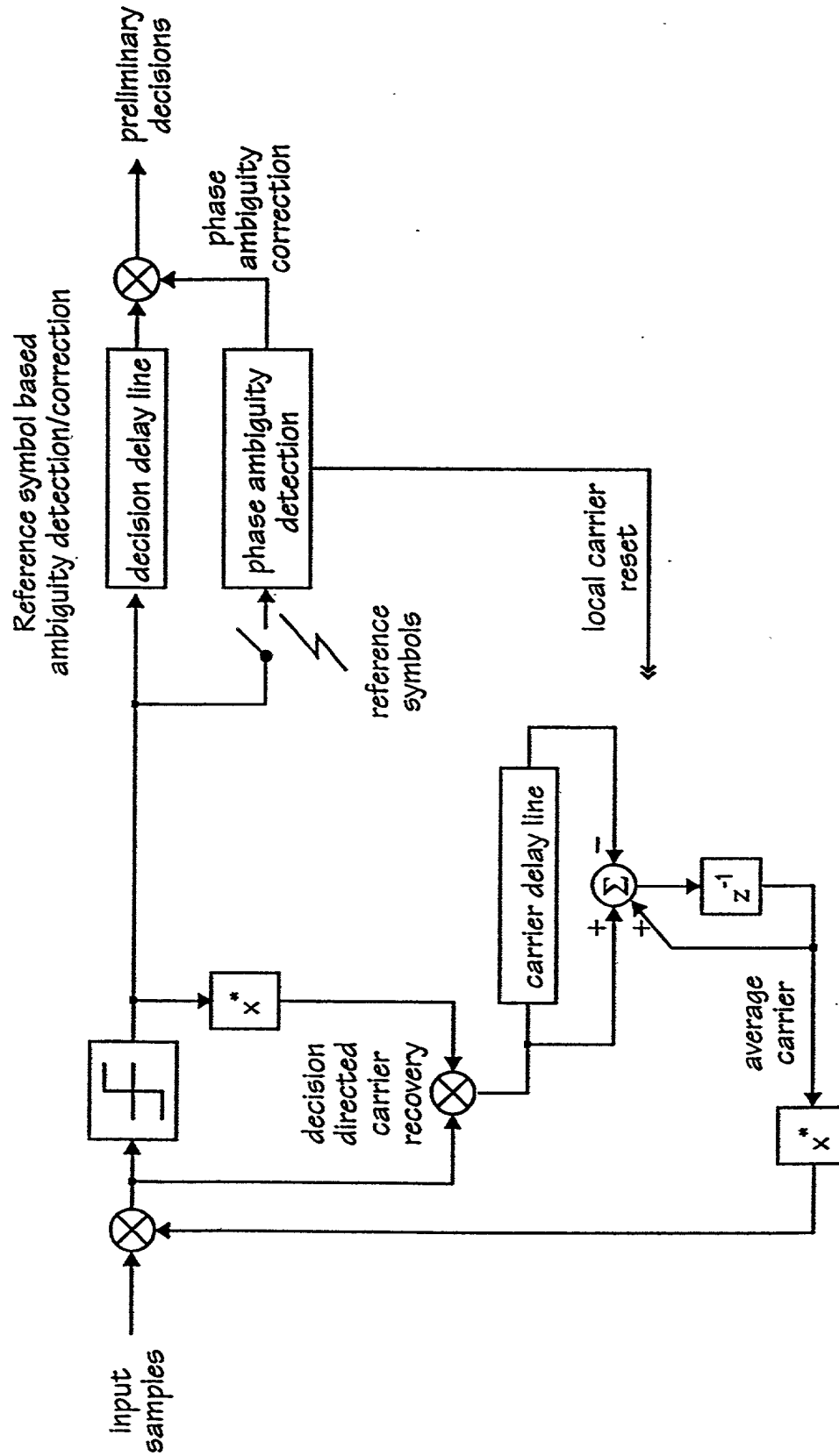


FIG. 29a



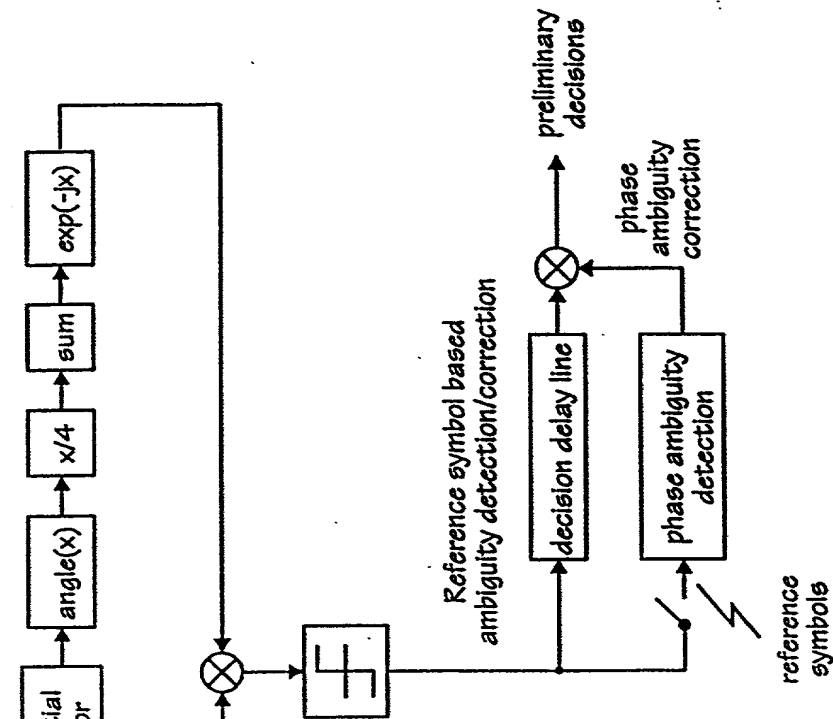


FIG. 29b

FIG. 29c

